Cost Cetimate - Arterina Pedestal

STATINTL

concrete = [15' x 3.5' x 2.25'] 2 = 236.25 ft3

seinforcing steel:

$$L_{1} = 4 (11 \times (3.5 - .5)) = 132 \text{ pt.}$$
 $L_{2} = 4 (3 \times (15 - .5)) = \frac{174}{306} \text{ pt.}$

$$wght/ft = \eta R^2 L = \eta \left(\frac{7/8}{2}\right)^2 / 2 \times .28356 = 2.046 \#$$

ASB 10"x45/8"x25.4#/ft

ASB 5"x3"x 14.75#/ft

angle 6"x 31/2" x 9.8#/ft

columns 10" x 10" x 60.95#/ft

$$L = 11' - 3'' \times 3 =$$
 63.75 ft
 $L_z = 10 \times 3 =$

3/8" stul plate

$$L = 13' + 5'' + 5'' = 13.83'$$

$$A = L^{2} = [13.83 \times 12]^{2} = 27556 \text{ in}^{2}$$

$$wght = [27556 \times 3/8 \times .28356] = 2930.2 \#$$

grating

Onea =
$$[3 \times 20.5 \times 2] + [3 \times 13] + [4.5 \times 13] = 220.5 \text{ ft}^2$$

Borden grating size 8 style B = 11.6#/ft²

wght = 11.6 × 220.5 = 2557.8 #

Listungth bolto

cruehed stone =

$$ught = \eta \left(\frac{1.5}{a}\right)^{2} 12^{\pm} (48)(.28356) = 288.6$$

exercation 2.25 x 3.5 x 15 x 2 = 236.25 ft of footinge exercation for cruehed etone

$$1 \times 3.5 \times 1.5 \times 2 = 105 \text{ ft}^3$$
 105 ft^3

1) eparation

by hand with pick & shovel in heavy eoil labor only =
$$\frac{27}{27}$$
 (C.Y. = $\frac{236.25 + 105}{27}$ x $\frac{27}{27}$ =

trim siches and bottom for concrete pour in hardpan \$76/ft 2

$$A = \left[(15 \times 3.5) + (2.25 \times 15 \times 2) + (3.5 \times 2.25 \times 2) \right] 2$$

hauling 6C.Y. dump truck 4 mi round trip =

total =
add 300% mobilization, contigencies, size of job
general contractors 0 & P = 30%

3133.36

Reinfared concrete footinge

formwork spread footings / use

reinforcing in place heavy bare = \$550/ton

concrete
$$\frac{^{4}/35}{c.y.} \times \frac{236.25}{27} =$$

anchor bolts (use 11/2" \$ x 18" long @ 18 ea)

Structural Steel

Welded rigid frame 1 story minimium #880/ton

cost of stul =
$$\frac{16381.2}{2000} \times 880 = 7207.73$$
add 60% fur mobilization, contigencies,

use of job

add 30% for 0+P for general contractor

#3459.71

#4992.08

structural etal = 15000

Cost Summary (excluding ladder & railing)

" concrete footings

a) escaration

3) structural stul

#4850 V

#3150 V

15000

.....

... ...

and the second of the second o

The second secon

additions to original setimate

excavation for stair foundations:

1.5 x 2.5 x 4.5 x 2 1.25 C.Y. megligible

concrete negligible

still 2 channels 20'x 15#/ft x2 = 600#

columns 2WF shope. 16#/ft x2x12 = 384#

miec 15 10 %

1132#

Cost = 15333772001 1132, 880 = 500

60% contigencies = 300 30% 0\$P = 240 15/040

Painting

structural stil I field cost = . 19/SF

we are requiring I shop cost } 4x.19 = . 76 SF

3 field costs }

$$A_1 = 19 \times 18.83 = 348.3 \text{ fst}^2$$
 $A_2 = 348.3$

$$A_4 = .83 \times 12 \times 24 = 240$$

4243

Stair removal

Approved For Resease 2001/08/09: CIA-RDP86-00800R000199460024-5

Summay

Concrete footings #4850

Useration \$3150

Structural stell \$16000

Painting \$4250

Stain removal* misc site work \$3150

*31400

acid 10% to the total for sicurity requirements, access limitations,

34540

Total Cost = "34,500)

remote location etc